NHDOT SPR2 PROGRAM
RESEARCH PROGRESS REPORT

Project # *Statewide-SPR 26962Q*		**Report Period** Year *2017* ☐ Q1 (Jan-Mar) ☐ Q2 (Apr-Jun) X Q3 (Jul-Sep) ☐ Q4 (Oct-Dec)
Project Title: *Iron Oxide Deposits on Highway Construction Projects*		
Project Investigator: *James Degnan* **Phone:** *603 226 7826*		**E-mail:** *jrdegnan@usgs.gov*
Project Start Date: *September 21, 2016*	**Project End Date:** *September 30, 2018*	**Project schedule status:** X On schedule ☐ Ahead of schedule ☐ Behind schedule

Brief Project Description:

Rock fill material placed in contact with wet areas adjacent to roadways has been associated with the mobilization of high concentrations of iron and iron fouling in surface water. Collection of new data to characterize iron fouling, as well as statistical and geochemical modeling can improve our understanding of iron fouling potential.

Progress this Quarter (include meetings, installations, equipment purchases, significant progress, etc.):

USGS internal Technical Review, 09/19/2017

NHDOT Technical Advisory Group (TAG), 09/26/2017

New USGS hire, new project staff: Melissa Lombard

Joe Levitt has field identified the presence or absence of Fe and characterized additional road fill/valley bottom locations with help from Caroline Andy, Summer Intern and Chandler Peterson, Volunteer for Science

Management of existing data, independent variable identification and regression has continued.

Items needed from NHDOT (i.e., Concurrence, Sub-contract, Assignments, Samples, Testing, etc…):

Anticipated research next three (3) months:

None planned

Circumstances affecting project:

James Degnan has taken on a new position as of 10/1/2017 and is no longer the project investigator

Tasks (from Work Plan) *work plan element from proposal*	**Planned % Complete**	**Actual % Complete**
Project planning	*100*	*100*
Data collection	*66*	*60*
Database construction	*60*	*60*
Modeling	*25*	*30*
Data analysis	*0*	*30*
Internal reviews	*33*	*33*
Data and model archive	*0*	*0*
Report	*0*	*5*